

## INTERNATIONAL SEARCH REPORT

International Application No.

.../GB2004/004332

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 E21B43/117

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 960 894 A (LILLY TERRY G ET AL) 5 October 1999 (1999-10-05) column 6, lines 21-34; claims 1-3; figures 1-4	1-8
A	US 6 082 450 A (HANEY JOSEPH P ET AL) 4 July 2000 (2000-07-04) column 4, line 5 - column 5, line 44; figures 1-4	1
A	US 6 520 258 B1 (BEHRMANN LAWRENCE A ET AL) 18 February 2003 (2003-02-18) column 7, lines 35-56; figures 1-11	1
A	WO 01/04452 A (SCHLUMBERGER TECHNOLOGY CORP) 18 January 2001 (2001-01-18) page 17, lines 15-23	1

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

1 December 2004

Date of mailing of the international search report

16/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5018 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Manolache, I

## INTERNATIONAL SEARCH REPORT

 ational Application No  
 /GB2004/004332

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5960894	A	05-10-1999	AU 1540099 A EP 1062404 A1 WO 9946476 A1	27-09-1999 27-12-2000 16-09-1999
US 6082450	A	04-07-2000	US 5775426 A AU 3296599 A CA 2320720 A1 EP 1068426 A1 NO 20005057 A WO 9951853 A1 AU 3804097 A BR 9711603 A CA 2251639 A1 CN 1222950 A ,B DE 69726161 D1 EA 780 B1 EP 0925423 A1 NO 985485 A WO 9810167 A1 US 6158511 A US 2001001418 A1	07-07-1998 25-10-1999 14-10-1999 17-01-2001 06-10-2000 14-10-1999 26-03-1998 24-08-1999 12-03-1998 14-07-1999 18-12-2003 24-04-2000 30-06-1999 05-03-1999 12-03-1998 12-12-2000 24-05-2001
US 6520258	B1	18-02-2003	AU 6233200 A CA 2381772 A1 DE 10084830 T0 EG 22604 A GB 2368626 A ,B GB 2398092 A ,B GB 2398093 A ,B GB 2398094 A ,B MX PA02000667 A WO 0107860 A2 US 2003150646 A1 US 6554081 B1 US 6386109 B1	13-02-2001 01-02-2001 30-01-2003 30-04-2003 08-05-2002 11-08-2004 11-08-2004 11-08-2004 21-07-2003 01-02-2001 14-08-2003 29-04-2003 14-05-2002
WO 0104452	A	18-01-2001	AU 6206100 A WO 0104452 A1	30-01-2001 18-01-2001